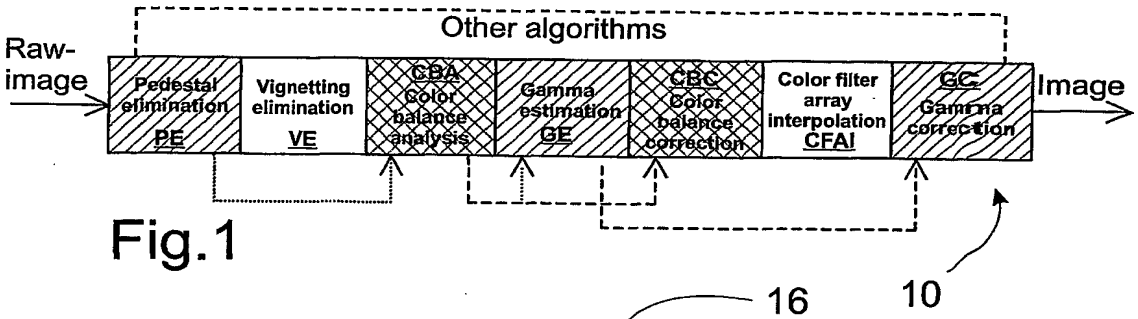


Fig.1

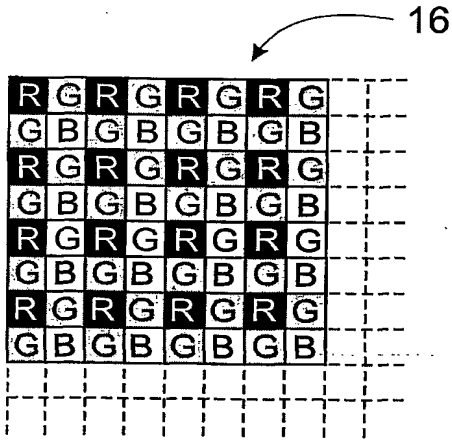


Fig.2

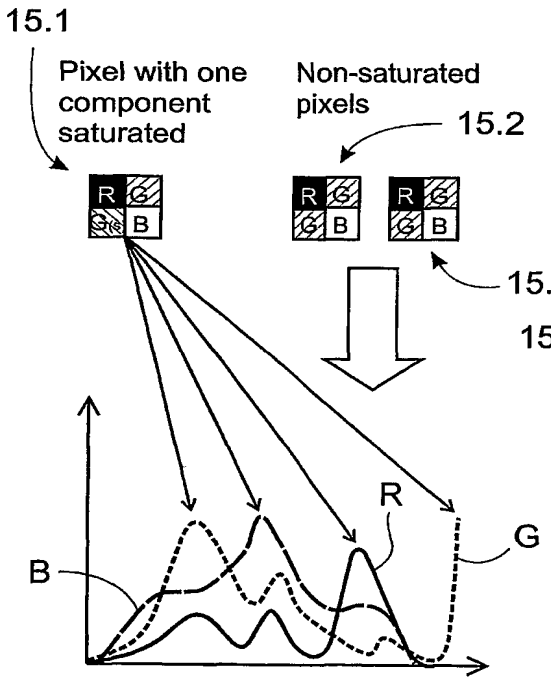


Fig.3a

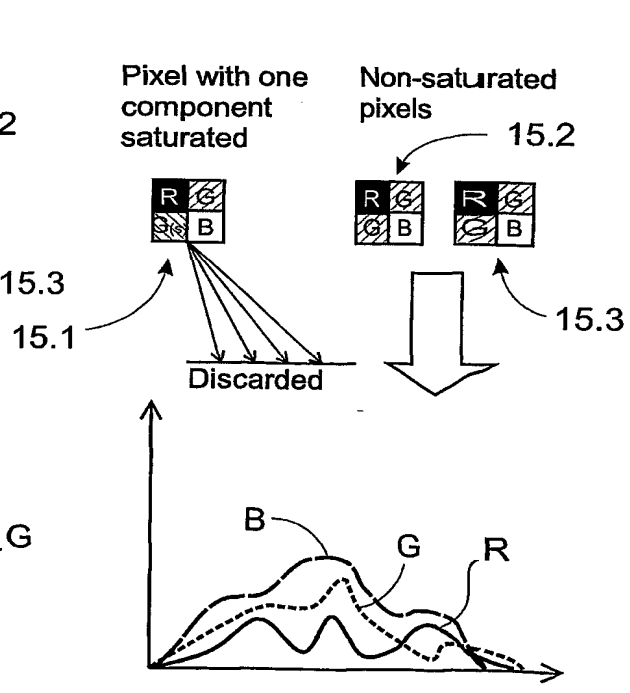


Fig.3b

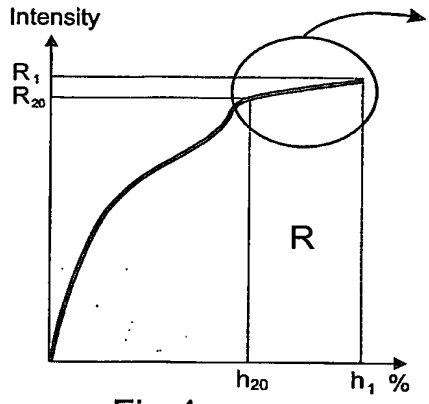
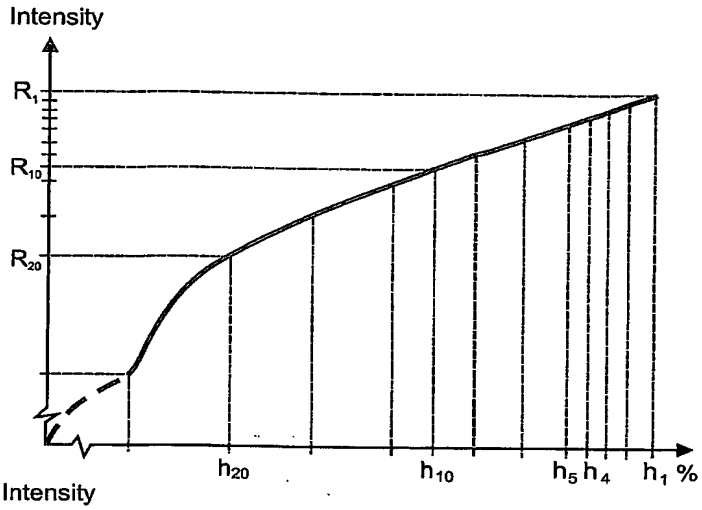


Fig.4a



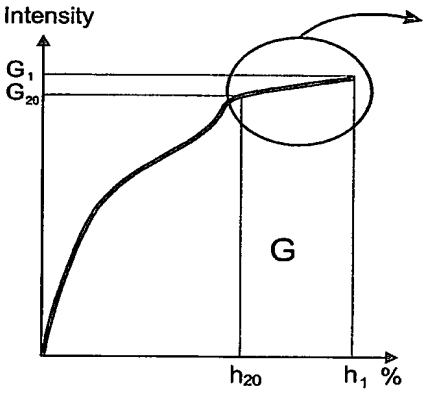
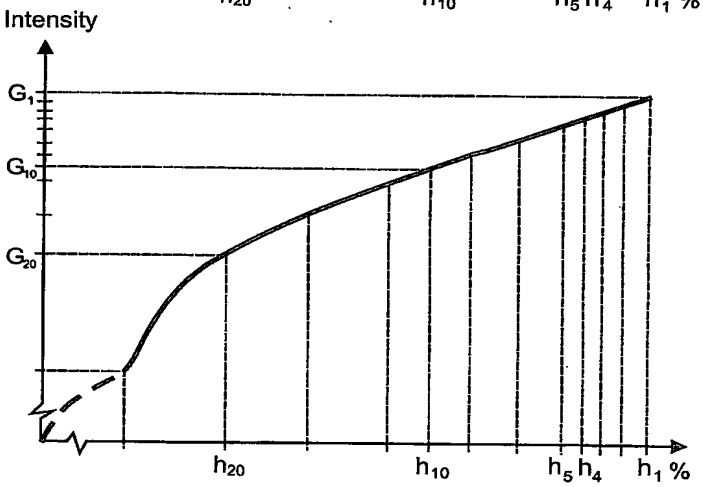


Fig.4b



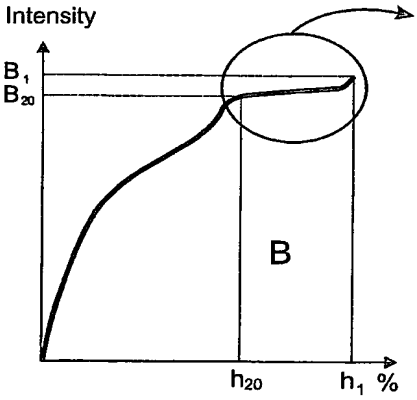
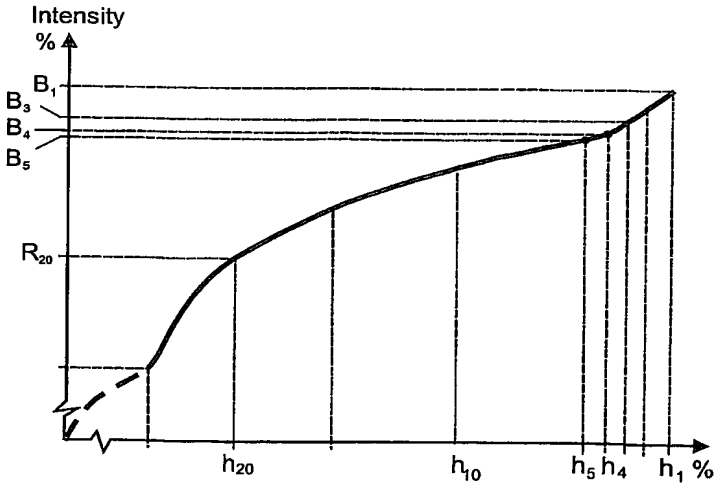


Fig.4c



h_4= Illumination point

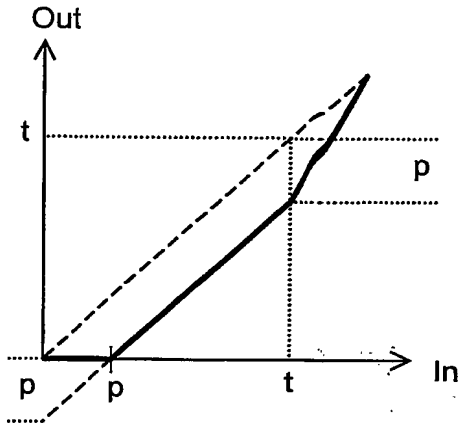

Out
t
p
p
p
t
In

Fig.5

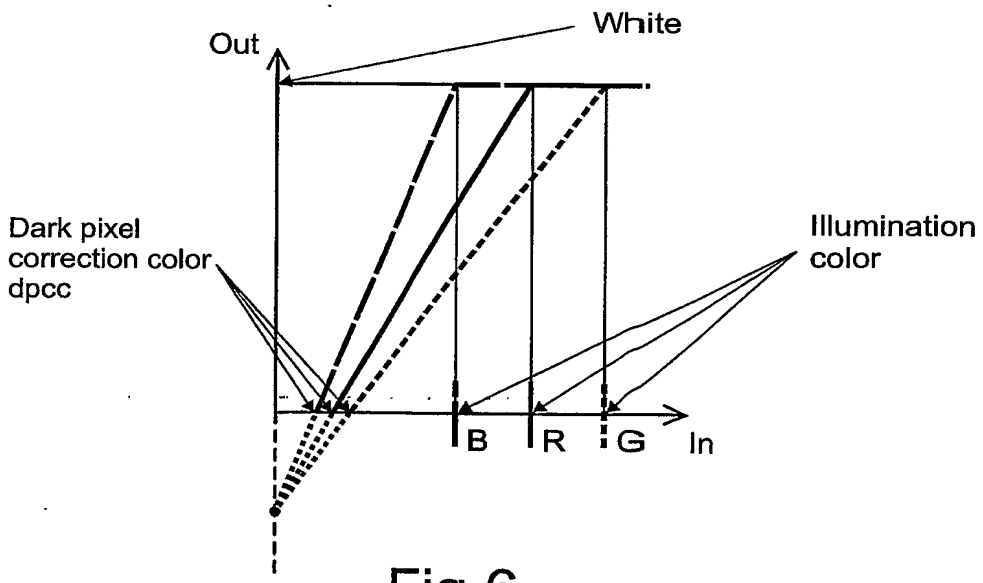

White
Out
Dark pixel
correction color
dpcc
Illumination
color
B
R
G
In

Fig.6

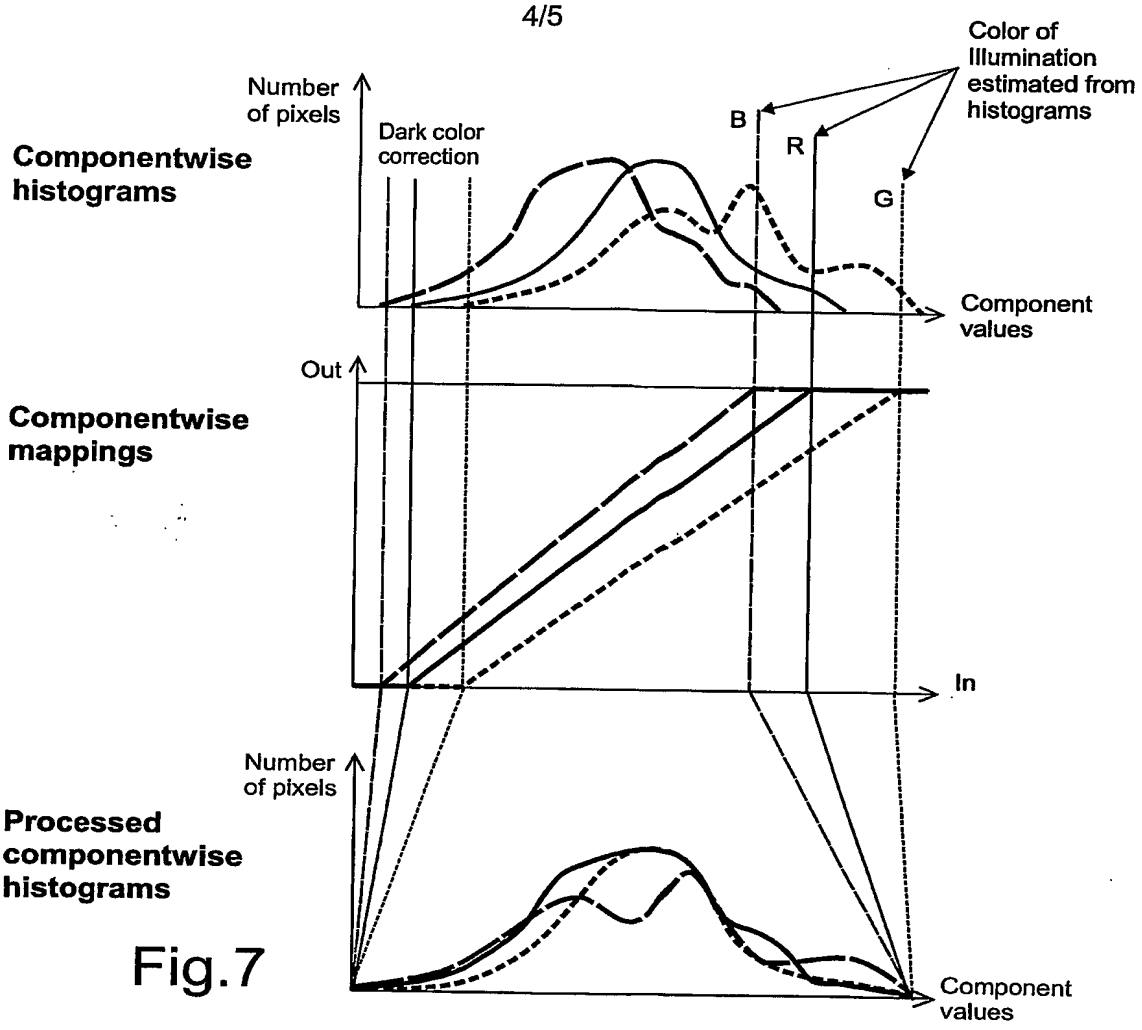

Componentwise histograms
Number of pixels
Dark color correction
Color of Illumination estimated from histograms
B
R
G
Component values
Componentwise mappings
Out
In
Processed componentwise histograms
Number of pixels
Component values

Fig.7

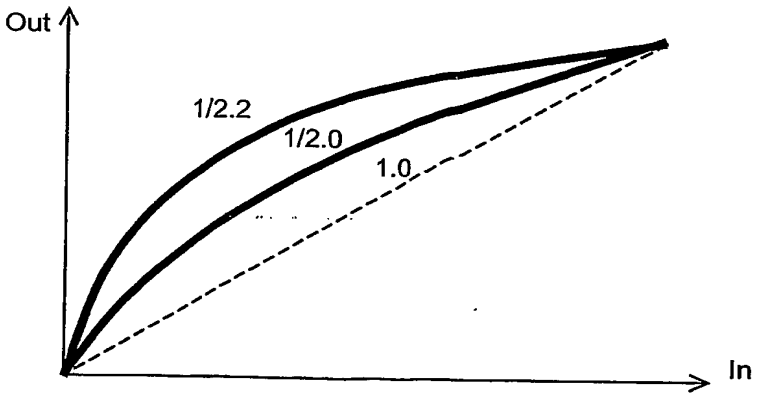

Out
1/2.2
1/2.0
1.0
In

Fig.8

i	%	t_2	t_1
1	100	0	0
2	99,9755859375	3,0703125	1,046875
3	99,951171875	3,0703125	1,0546875
4	99,9267578125	3,0703125	1,0625
5	99,90234375	3,09375	1,0703125
6	99,853515625	3,09375	1,07421875
7	99,8046875	3,09375	1,078125
8	99,755859375	3,09375	1,08203125
9	99,70703125	3,1171875	1,0859375
10	99,609375	3,1171875	1,08984375
11	99,51171875	3,1171875	1,09375
12	99,4140625	3,1171875	1,09765625
13	99,31640625	3,140625	1,1015625
14	99,12109375	3,140625	1,10546875
15	98,92578125	3,140625	1,109375
16	98,73046875	3,140625	1,11328125
17	98,53515625	3,1640625	1,1171875
18	98,14453125	3,1640625	1,12109375
19	97,75390625	3,1640625	1,125
20	97,36328125	3,1640625	1,125
21	96,97265625	3,1875	1,125
22	96,19140625	3,1875	1,125
23	95,41015625	3,1875	1,125
24	94,62890625	3,1875	1,125
25	93,84765625	3,2109375	1,125
26	92,28515625	3,2109375	1,125
27	90,72265625	3,2109375	1,125
28	89,16015625	3,2109375	1,125
29	87,59765625	3,234375	1,125
30	85,05859375	3,234375	1,125
31	85,05859375	3,234375	1,125
32	79,98046875	3,234375	1,125
33	50		
34	25		

Fig.9